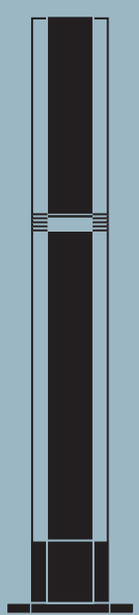
# Beolab Penta

Type 6621, 6622, 6623, 6624, 6625



BANG & OLUFSEN

Bang & Olufsen

| TECHNICAL SPECIFICATIONS | BEOLAB PENTA |
|---|---|
| Type | 6621, 6622, 6623, 6624, 6625 |
| **Speaker:** | |
| Long-term maximum power IEC | 320 watts |
| Maximum noise power IEC | 150 watts |
| Impedance | 8 ohms |
| Frequency range +4/-8 dB | 40-20,000 Hz |
| Power at 96 dB SPL (1 m) | 2.5 watts |
| Sensitivity 1 W (1 m) | 92 dB |
| Distortion 0.250 - 6 kHz | <0.5 % |
| Cabinet principle | Bass Reflex |
| Woofer | 4 units 13 cm (5") |
| Mid-range | 4 units 8 cm (3") |
| Tweeter | 2.5 cm (1") |
| Crossover frequency | 700/5000 Hz |
| Net cabinet volume | 32 litres |
| **Power amplifier:** | |
| Long-term maximum power IEC | 300 watts |
| RMS DIN | 175 watts |
| IHF | 150 watts |
| Total harmonic distortion IHF | <0.015 % |
| Intermodulation IHF | <0.02 % |
| Dynamic headroom | >1.5 dB |
| Input sensitivity/impedance: | |
| POWER LINK sockets | 1 V/>25 kohms |
| - channel separation | >70 dB |
| SPEAKER LINK socket | 11 V/>15 kohms |
| LINE IN socket | 1 V/>25 kohms |
| BASS EXTENSION switch | 0 dB, +3 dB, + 6 dB |
| INPUT LEVEL switch | 0 dB, -3 dB, -6 dB |
| Dynamic Clipping Attenuator | Automatic |
| Power consumption | Max. 300 watts |
| Stand-by | 2 watts |
| Dimensions W x H x D | 22 x 165 x 20.5 cm |
| Dimensions, Stand | 35.5 x 4 x 34 cm |
| Weight | 24 kg |

**Subject to change without notice**

**Ledningsmontering på nettransformatorer**

**Wiring of Mains Transformers**

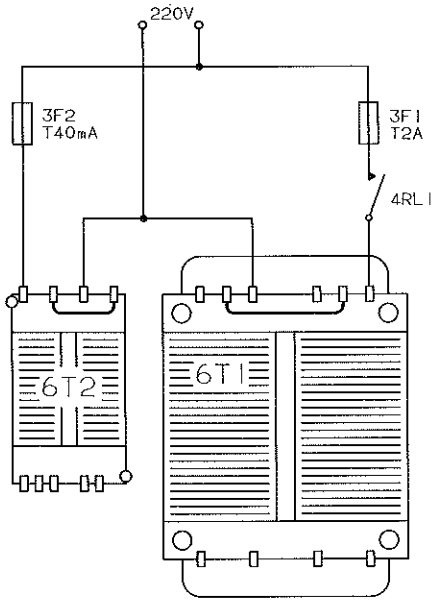
**Type 6621**

**Type 6622**

**Type 6625**

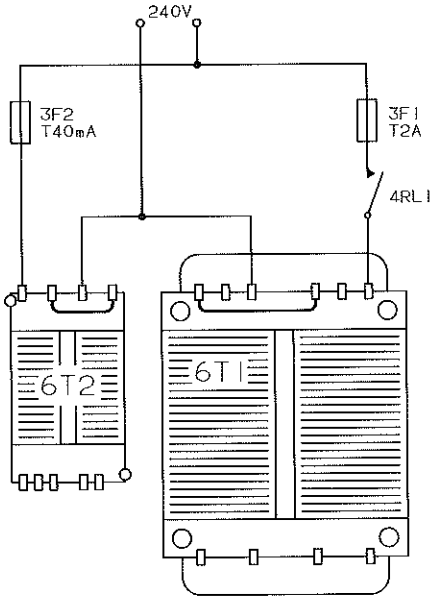
6T1 8013369
6T2 8013370

3F1 6600009
3F2 6600070



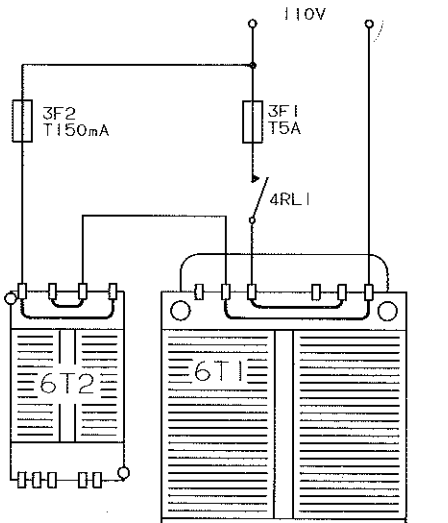

6T1 8013369
6T2 8013370

3F1 6600009
3F2 6600070




6T1 8013369
6T2 8013370

3F1 6600019
3F2 6600069



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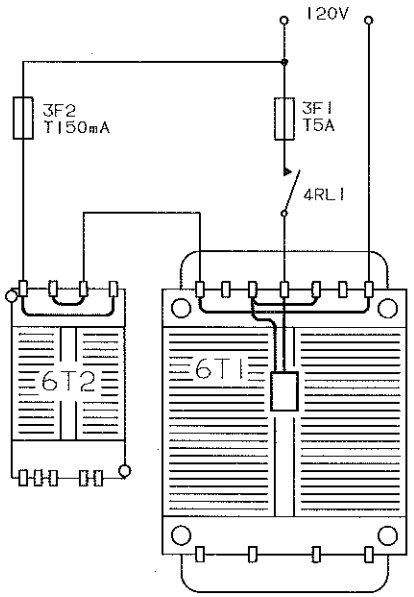
Type 6623

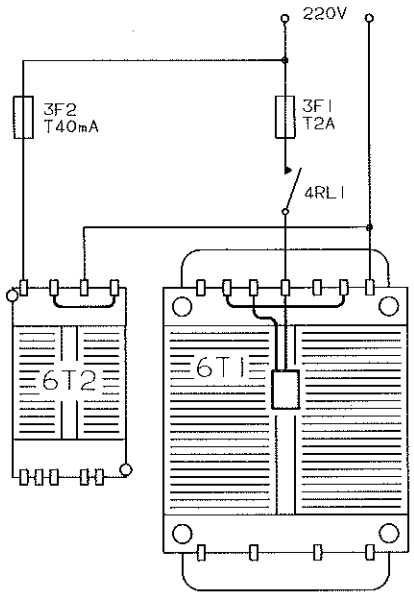
6T1 8013375
6T2 8013370

3F1 6600019
3F2 6600069



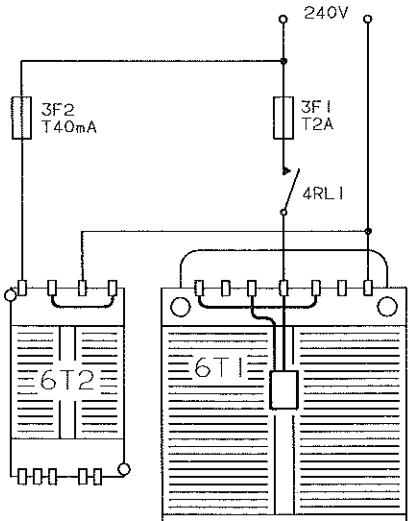

6T1 8013375
6T2 8013370

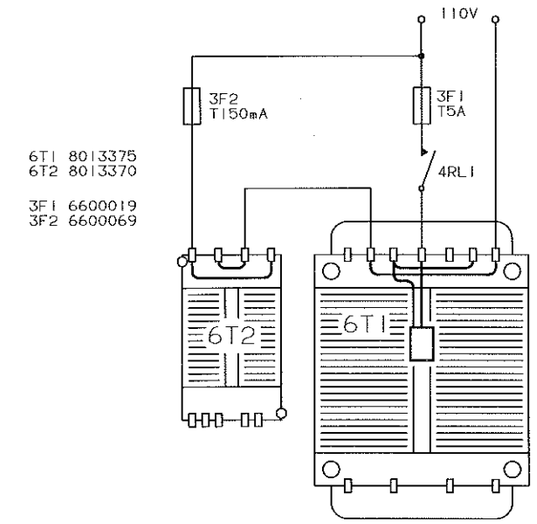
3F1 6600009
3F2 6600070



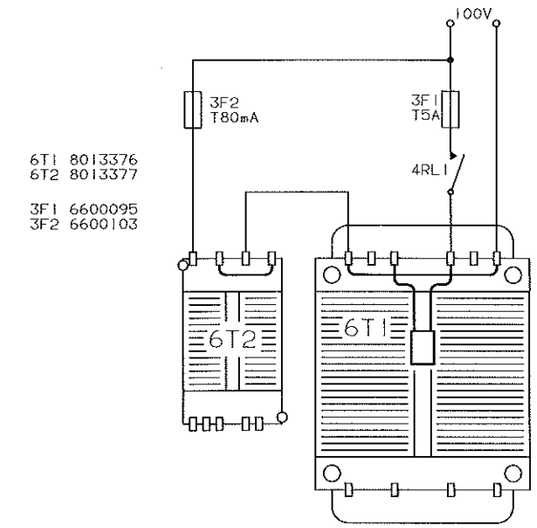

6T1 8013375
6T2 8013370

3F1 6600009
3F2 6600070






**Type 6624**






## DIAGRAMFORKLARING

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efterfulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102*.

### Komponenttryk og koordinatsystem

De største printplader er forsynet med komponenttryk og et koordinatsystem på både print- og komponentside.
På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på printpladen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

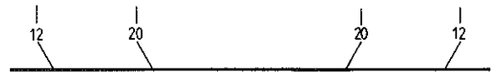
### Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være $\overline{\text{ST.BY.}}$ = »low« i stand-by-stilling eller ST.BY. = »high« i stand-by-stilling.

### Ledningsforbindelser

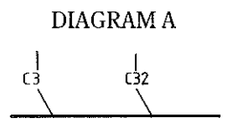
Ledningsforbindelserne på diagrammerne er samlet i »bundter«. De enkelte ledninger er forsynet med en af følgende koder:

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE




Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser, i hvilken retning, den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE




Forbindelsen til en anden diagramside angives med et tal samt et bogstav for det diagram, forbindelsen går til.

### Forsyningsspændinger

Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

Eksempel:

## EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.
If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected, e.g. TR102*.

### Component print and coordinate system

The largest PCBs have component prints and a coordinate system on both the print and the component side.
On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

### Control Circuit

In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g. $\overline{\text{ST.BY.}}$ = low in the stand-by mode or ST.BY. = high in the stand-by mode.

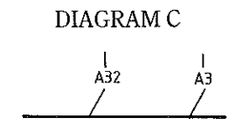
### Wiring Connections

The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

INTERNAL CONNECTION ON ONE DIAGRAM PAGE

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire is found.

CONNECTION TO ANOTHER DIAGRAM PAGE




A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

### Supply Voltages

All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

Example:

2-2





## SYMBOL FOR SIKKERHEDSKOMPONENTER

Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

## SYMBOL OF SAFETY COMPONENTS

When replacing components with this symbol, components with identical part numbers must be used. The new component must be mounted in the same way as the one replaced.

## MÅLEBETINGELSER

Alle DC-spændinger er målt i forhold til stel med et voltmeter med en indgangsmodstand på 10 Mohm.

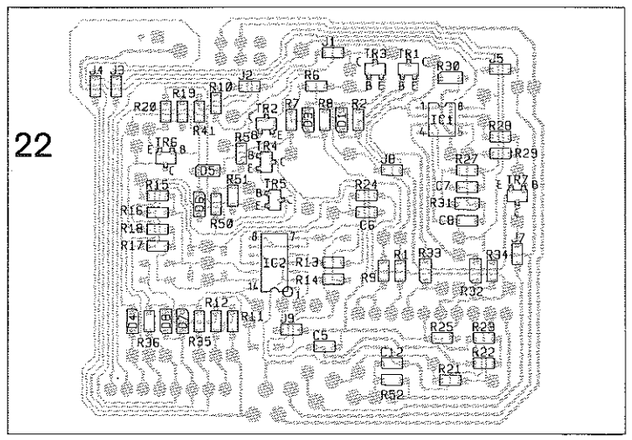
DC-spændingerne er opgivet i volt (V), f.eks. 0,7 V.

## MEASURING CONDITIONS

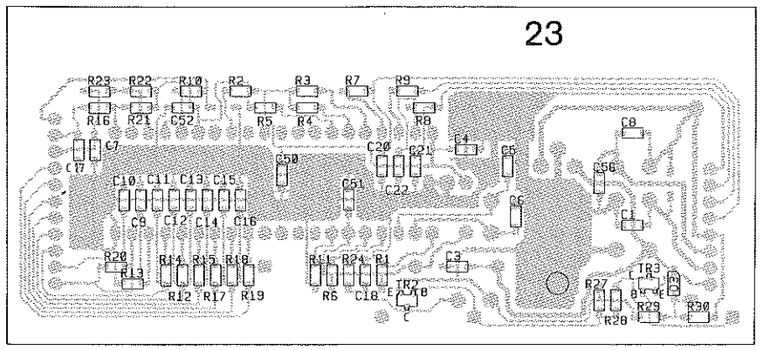
All DC voltages have been measured in relation to ground with a voltmeter with an input resistance of 10 Mohms.

The DC voltages are stated in volts (V), e.g. 0.7 V.

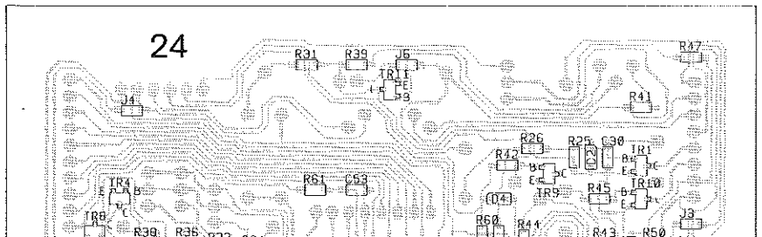
**PCB 22, Input Control**




**PCB 23, Microcomputer**




**PCB 24, Display Drive**




**Crossover Network**

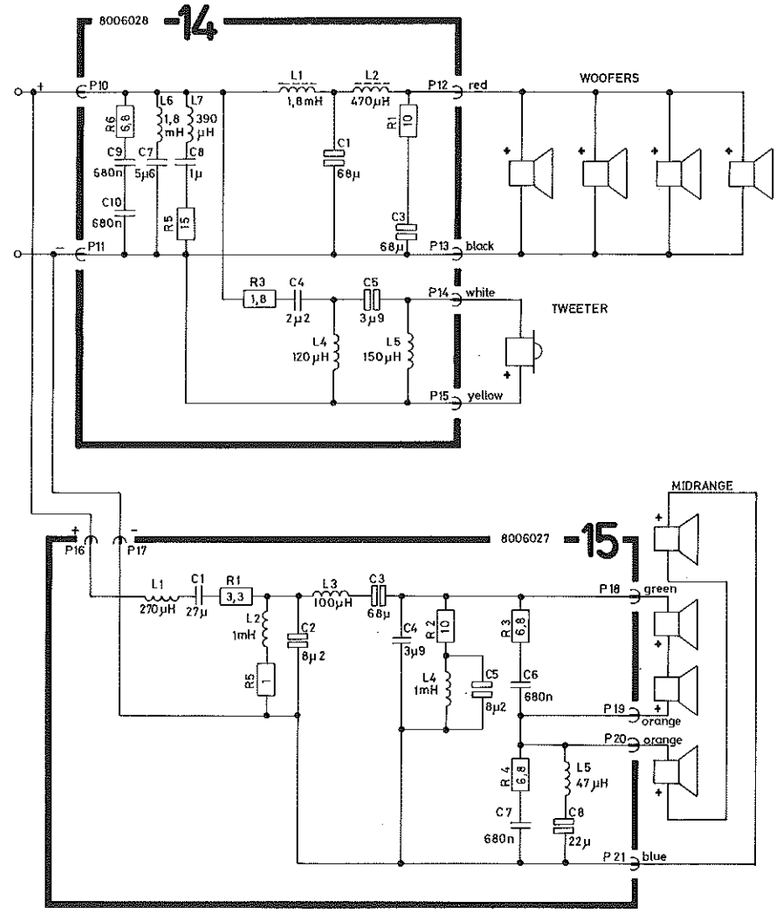


**DIAGRAM A, Display**

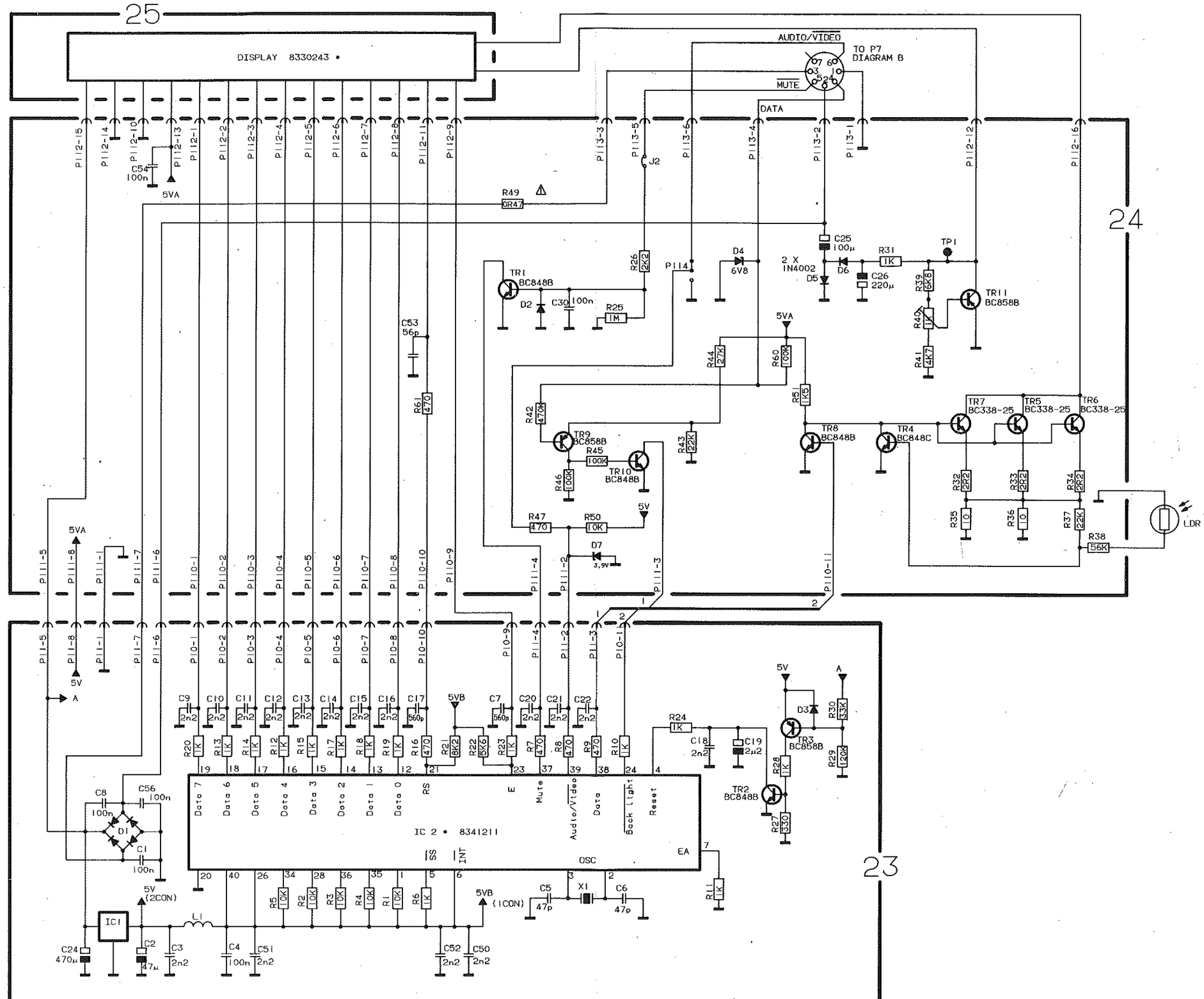
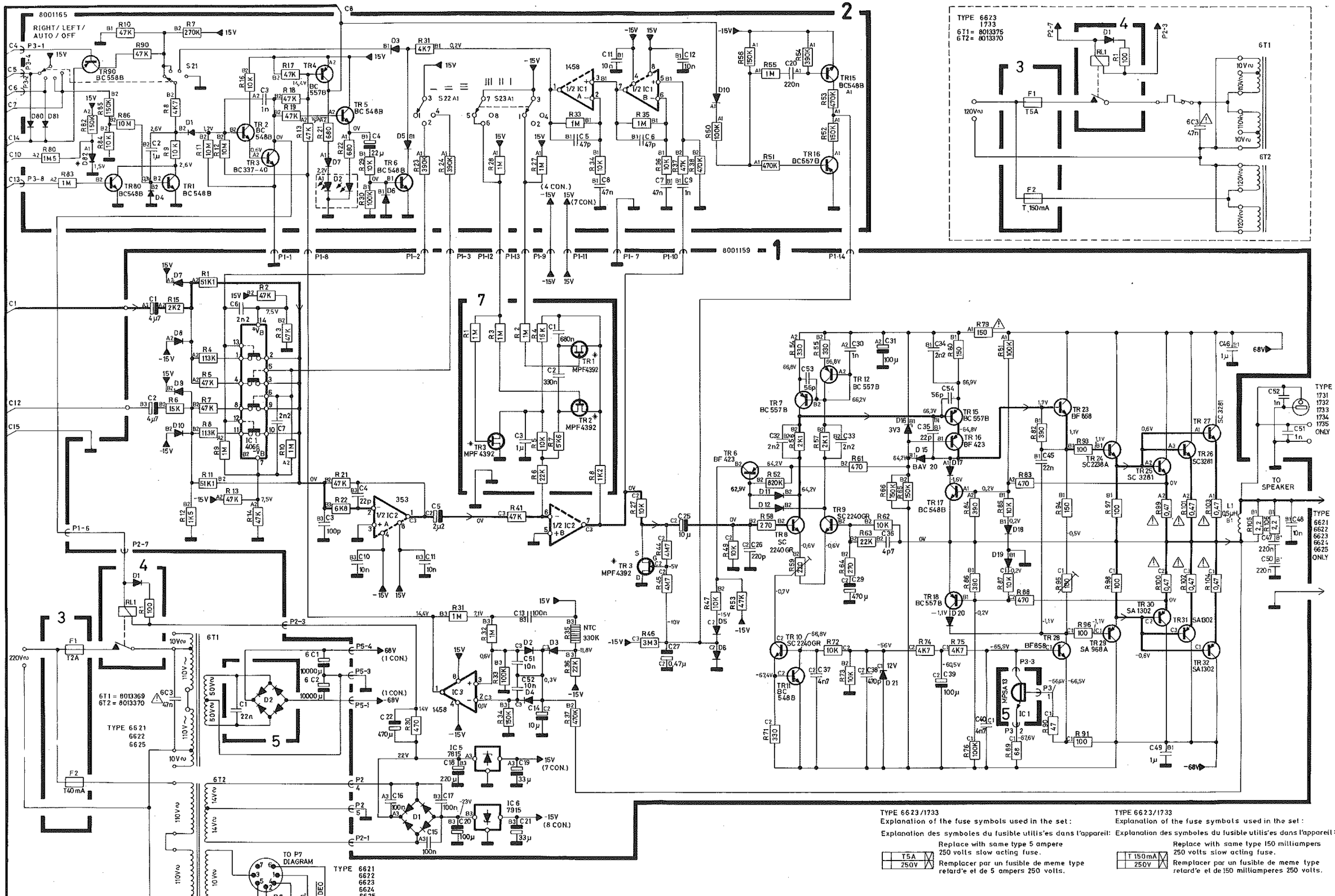


**DIAGRAM B, Amplifier and Power Supply**



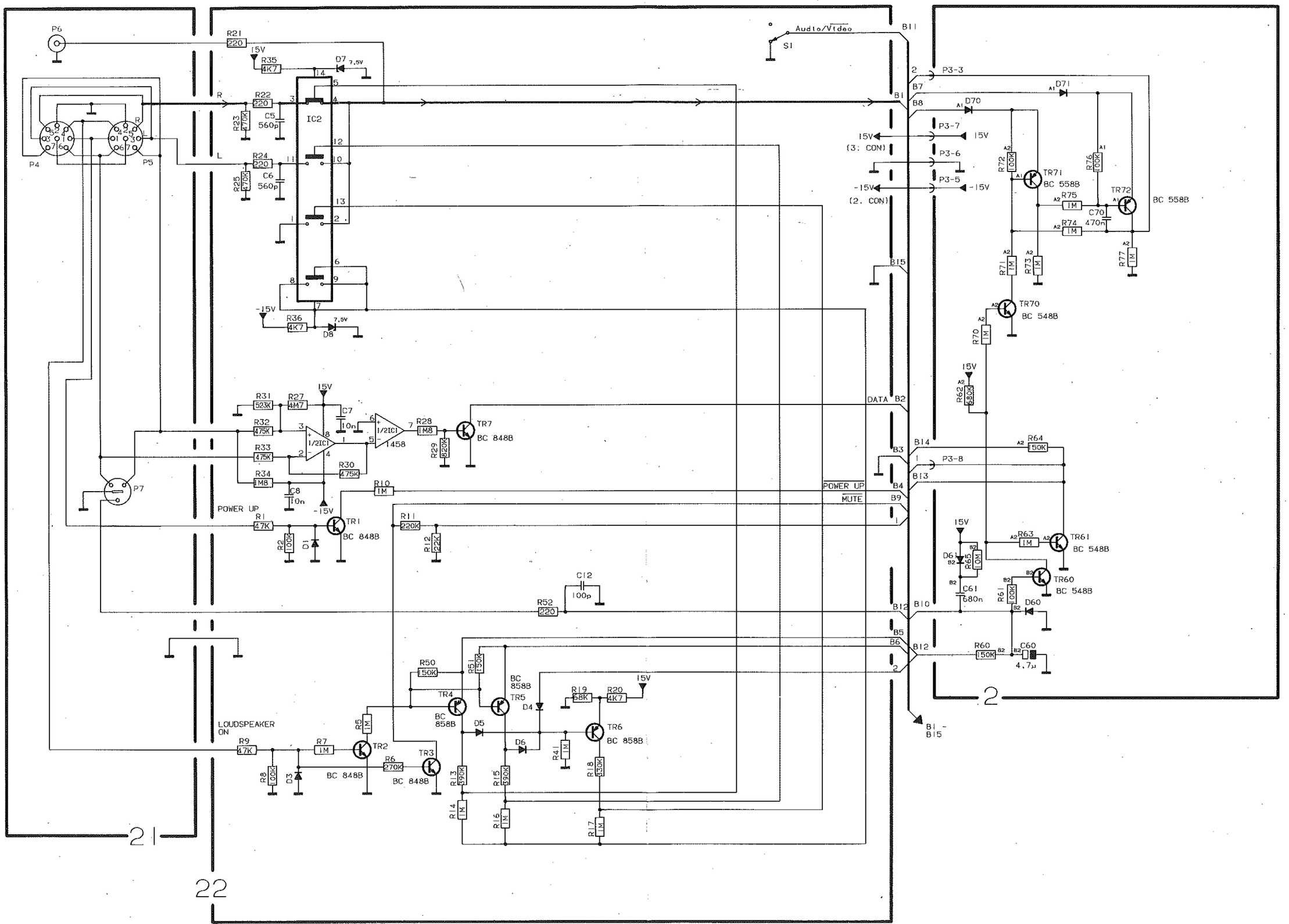

TYPE 6623/1733
Explanation of the fuse symbols used in the set :
Explanation des symboles du fusible utilis'es dans l'appareil:

| | |
|---|---|
| T5A 250V | Replace with same type 5 ampere 250 volts slow acting fuse. Remplacer par un fusible de meme type retard'e et de 5 ampers 250 volts. |

TYPE 6623/1733
Explanation of the fuse symbols used in the set :
Explanation des symboles du fusible utilis'es dans l'appareil:

| | |
|---|---|
| T 150mA 250V | Replace with same type 150 milliampers 250 volts slow acting fuse. Remplacer par un fusible de meme type retard'e et de 150 milliamperes 250 volts. |

**DIAGRAM C, Input**

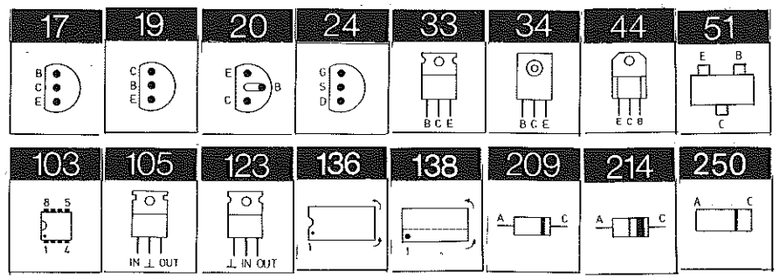


3-1

3-1



## LIST OF ELECTRICAL PARTS




Resistors not referred to are standard, see page 3-4

### PCB 1, 8001159 Amplifier

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| IC1Δ | 8340202 | **136** | MC 4066 BCP | IC5 | 8340064 | **105** | MC 7815 |
| IC2 | 8340763 | **136** | LF353-TL072 | IC6 | 8340240 | **123** | MC 7915 CT |
| IC3 | 8340048 | **103** | MC 1458 N | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TR3*Δ | 8320396 | **24** | MPF 4392 | TR17 | 8320509 | **20** | BC 548B |
| TR6 | 8320623 | **17** | BF 423 | TR18 | 8320503 | **20** | BC 557B |
| TR7 | 8320503 | **20** | BC 557B | TR23 | 8320646 | **44** | BF 858 |
| TR8-10 | 8320641 | **17** | SC 2240 GR | TR24 | 8320643 | **33** | SC 2238A |
| TR11 | 8320509 | **20** | BC 548B | TR25-27 | 8320645 | **34** | SC 3281 |
| TR12 | 8320503 | **20** | BC 557B | TR28 | 8320646 | **44** | BF 858 |
| TR15 | 8320503 | **20** | BC 557B | TR29 | 8320642 | **33** | SA 968A |
| TR16 | 8320623 | **17** | BF 423 | TR30-32 | 8320644 | **34** | SA 1302 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| D1 | 8300466 | | B125 C1500 | D16 | 8300541 | **209** | ZPD 3.3V |
| D2-12 | 8300058 | **209** | 1N 4148 | D17-20 | 8300058 | **209** | 1N 4148 |
| D15 | 8300409 | **214** | BAV 20-25 | D21 | 8300407 | **209** | ZPD 12V |

| | | | | | |
|---|---|---|---|---|---|
| R1 | 5020363 | 51.1 kΩ 1% 1/4W | R62 | 5020110 | 10 kΩ 1% 1/4W |
| R4 | 5020126 | 113 kΩ 1% 1/4W | R64 | 5020954 | 270 Ω 1% 1/4W |
| R8 | 5020126 | 113 kΩ 1% 1/4W | R73 | 5020127 | 10 kΩ 5% 1W |
| R11 | 5020363 | 51.1 kΩ 1% 1/4W | R79 | 5020633 | 150 Ω 5% 0.35W |
| R35 | 5220036 | 330 kΩ 10% 1/2W | R95 | 5370341 | 100 Ω 20% 0.1W |
| R56-57 | 5020200 | 2.1 kΩ 1% 1/4W | R99-R104 | 5100203 | 0.47 Ω 10% 2W |
| R59 | 5370351 | 220 Ω 20% 0.1W | | | |

| | | | | | |
|---|---|---|---|---|---|
| C1-2 | 4200515 | 4.7 µF 20% 25V | C30 | 4010105 | 1 nF 10% 63V |
| C3 | 4100232 | 100 pF 5% 63V | C31 | 4200652 | 100 µF 20% 100V |
| C4 | 4000136 | 22 pF 5% 63V | C32-34 | 4010103 | 2.2 nF 10% 63V |
| C5 | 4200517 | 2.2 µF 20% 50V | C35 | 4003059 | 22 pF 5% 500V |
| C6-7 | 4010103 | 2.2 nF 10% 63V | C36 | 4000145 | 4.7 pF 0.25 pF 63V |
| C10-11 | 4010106 | 10 nF -20+80% 40V | C37 | 4010101 | 4.7 nF 10% 63V |
| C13 | 4130230 | 100 nF 20% 63V | C38 | 4010128 | 470 pF 10% 63V |
| C14 | 4200510 | 10 µF 20% 16V | C39 | 4200511 | 100 µF 20% 10V |
| C15-17 | 4130230 | 100 nF 20% 63V | C40 | 4010101 | 4.7 nF 10% 63V |
| C18 | 4200311 | 220 µF -10+100% 40V | C45 | 4130195 | 22 nF 5% 250V |
| C19 | 4200509 | 33 µF 20% 25V | C46 | 4130155 | 1 µF 10% 100V |
| C20 | 4200368 | 100 µF -10+100% 63V | C47 | 4130308 | 220 nF 10% 63V |
| C21 | 4200509 | 33 µF 20% 25V | C48 | 4012002 | 10 nF -20+50% 400V |
| C22 | 4200704 | 470 µF 20% 25V | C49 | 4130155 | 1 µF 10% 100V |
| C25 | 4200510 | 10 µF 20% 16V | C50 | 4130308 | 220 nF 10% 63V |
| C26 | 4100234 | 220 pF 5% 63V | C51-52 | 4130265 | 10 nF 10% 63V |
| C27 | 4200523 | 0.47 µF 20% 50V | C53-54 | 4000362 | 56 pF 5% 63V |
| C29 | 4200665 | 470 µF 20% 6.3V | | | |

| | | |
|---|---|---|
| L1 | 6850114 | Coil 0.5 µH |

| | | |
|---|---|---|
| P1 | 7220143 | Plug 14/14 pole |
| P2 | 7220203 | Plug 10/9 pole |
| P3 | 7220313 | Plug 3 pole |
| P5 | 7220634 | Plug 4/3 pole |

### PCB 2, 8001165 Control

| | | | |
|---|---|---|---|
| IC1 | 8340048 | **103** | MC 1458 CP1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TR1-2 | 8320509 | **20** | BC 548B | TR60-61 | 8320509 | **20** | BC 548B |
| TR3 | 8320595 | **20** | BC 337-40 | TR70 | 8320509 | **20** | BC 548B |
| TR4 | 8320503 | **20** | BC 557B | TR71-72 | 8320510 | **20** | BC 558B |
| TR5-6 | 8320509 | **20** | BC 548B | TR80 | 8320509 | **20** | BC 548B |
| TR15 | 8320509 | **20** | BC 548B | TR90 | 8320510 | **20** | BC 558B |
| TR16 | 8320503 | **20** | BC 557B | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| D1 | 8300058 | **209** | 1N 4148 | D60-61 | 8300058 | **209** | 1N 4148 |
| D2 | 8330153 | | TLSV 5100 | D70-71 | 8300058 | **209** | 1N 4148 |
| D3-7 | 8300058 | **209** | 1N 4148 | D80-81 | 8300058 | **209** | 1N 4148 |
| D10 | 8300058 | **209** | 1N 4148 | D82* | 8300056 | **209** | ZTE 1.5V |

| | | |
|---|---|---|
| R65 | 5020875 | 10 MΩ 5% 1/8W |

| | | | | | |
|---|---|---|---|---|---|
| C2 | 4130399 | 1 µF 10% 63V | C11-12 | 4010106 | 10 nF -20+80% 40V |
| C3 | 4010105 | 1 nF 10% 63V | C20 | 4130308 | 220 nF 10% 63V |
| C4 | 4200016 | 22 µF -10+50% 25V | C60 | 4200842 | 4.7 µF 20% 16V |
| C5-6 | 4000137 | 47 pF 5% 63V | C61 | 4130311 | 680 nF 10% 63V |
| C7-8 | 4130240 | 47 nF 10% 63V | C70 | 4130313 | 470 nF 20% 63V |
| C9 | 4010105 | 1 nF 10% 63V | | | |

| | | |
|---|---|---|
| S21 | 7400378 | Switch |
| S22-23 | 7400379 | Switch |

| | | |
|---|---|---|
| P3 | 7220221 | Plug 8/8 pole |

### PCB 3, 8002905 PCB without fuses and mains lead

Type 6621-6622-6625 (EU-GB-AUS)

| | | |
|---|---|---|
| F1 | 6600009 | Fuse 2 AT |
| F2 | 6600070 | Fuse 40 mAT |
| | 6271102 | Mains lead (EU-GB) |
| | 6270297 | Mains lead (AUS) |

Type 6623 (US-CDN)

| | | |
|---|---|---|
| F1 | 6600019 | Fuse 5 AT |
| F2 | 6600069 | Fuse 150 mAT |
| | 6270251 | Mains lead |

Type 6624 (JAP)

| | | |
|---|---|---|
| F1 | 6600095 | Fuse 5 AT |
| F2 | 6600103 | Fuse 80 mAT |
| | 6271016 | Mains lead |

### PCB 4, 8001166 Relay

| | | | |
|---|---|---|---|
| D1 | 8300058 | **209** | 1N 4148 |

| | | |
|---|---|---|
| RL1 | 7600069 | Relay |
| | 3917109 | Damping material |

### PCB 5, 8001167 Bridge

| | | | |
|---|---|---|---|
| IC1 | 8340505 | **19** | MPS A13 |

| | | |
|---|---|---|
| D2 | 8300497 | KBU 6D |

| | | |
|---|---|---|
| C1 | 4130079 | 22 nF 20% 250V |

**PCB 6, Power Supply**
Type 6621-6622-6625

| | | | | | |
|---|---|---|---|---|---|
| C1-2 | 4200653 | 10000 µF 20% 80V | C3 | 4130394 | 47 nF 20% 250V |
| T1 | 8013369 | Transformer | T2 | 8013370 | Transformer |

Type 6623

| | | | | | |
|---|---|---|---|---|---|
| C1-2 | 4200653 | 10000 µF 20% 80V | C3 | 4130397 | 47 nF 20% 125V |
| T1 | 8013375 | Transformer | T2 | 8013370 | Transformer |

Type 6624

| | | | | | |
|---|---|---|---|---|---|
| C1-2 | 4200653 | 10000 µF 20% 80V | | | |
| T1 | 8013376 | Transformer | T2 | 8013377 | Transformer |

**PCB 7, 8001168**
**Signal Level**

| | | | | | |
|---|---|---|---|---|---|
| TR1-3*Δ | 8320396 | **24** MPF 4392 | | | |
| C1 | 4130311 | 680 nF 10% 63V | C3 | 4130070 | 1 µF 10% 50V |
| C2 | 4130309 | 330 nF 10% 63V | | | |
| P1 | 7220544 | Plug 5 pole | | | |

**PCB 14, 8006028**
**Crossover Network/**
**Woofers-Tweeter**

| | | | | | |
|---|---|---|---|---|---|
| R1 | 5100059 | 10 Ω 10% 9W | R5 | 5100200 | 15 Ω 10% 3W |
| R3 | 5100235 | 1.8 Ω 10% 3W | R6 | 5100242 | 6.8 Ω 5% 3W |
| C1 | 4200692 | 68 µF 10% 35V | C7 | 4200732 | 5.6 µF 10% 35V |
| C3 | 4200692 | 68 µF 10% 35V | C8 | 4130155 | 1 µF 10% 100V |
| C4 | 4130152 | 2.2 µF 10% 100V | C9-10 | 4130312 | 680 nF 10% 63V |
| C5 | 4130385 | 3.9 µF 10% 100V | | | |
| L1 | 6850193 | Coil 1.8 mH | L5 | 6850142 | Coil 0.15 mH |
| L2 | 6850192 | Coil 470 µH | L6 | 6850200 | Coil 1.8 mH |
| L4 | 6850196 | Coil 120 µH | L7 | 6850198 | Coil 390 µH |

**PCB 15, 8006027**
**Crossover Network/Midrange**

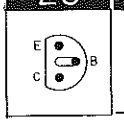
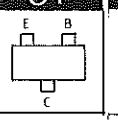
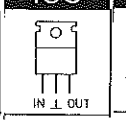
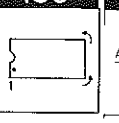
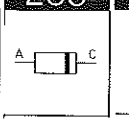
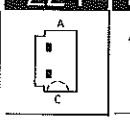
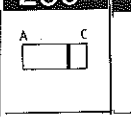
| | | | | | |
|---|---|---|---|---|---|
| R1 | 5100340 | 3.3Ω 10% 9W | R3-4 | 5100242 | 6.8 Ω 5% 3W |
| R2 | 5104009 | 10 Ω 10% 3W | R5 | 5104020 | 1 Ω 10% 3W |
| C1 | 4200731 | 27 µF 10% 35V | C5 | 4200682 | 8.2 µF 10% 35V |
| C2 | 4200682 | 8.2 µF 10% 35V | C6-7 | 4130312 | 680 nF 10% 63V |
| C3 | 4200692 | 68 µF 10% 35V | C8 | 4200683 | 22 µF 10% 35V |
| C4 | 4130385 | 3.9 µF 10% 100V | | | |
| L1 | 6850197 | Coil 270 µH | L4 | 6850199 | Coil 1 mH |
| L2 | 6850190 | Coil 1 mH | L5 | 6850166 | Coil 47 µH |
| L3 | 6850188 | Coil 100 µH | | | |

**PCB 21, 8001169 Input Socket**

| | | | | | |
|---|---|---|---|---|---|
| P4-5 | 7210518 | 8 pole DIN socket | P7 | 7210521 | Loudspeaker socket |
| P6 | 7220746 | Phono plug | | | |

**PCB 22, 8001172 Input Control**

| | | | | | |
|---|---|---|---|---|---|
| IC1 | 8340996 | **138** 1458 | IC2 | 8341024 | **138** 4066 |
| TR1-3 | 8320615 | **51** BC 848B | TR7 | 8320615 | **51** BC 848B |
| TR4-6 | 8320616 | **51** BC 858B | | | |
| D1 | 8300482 | **250** LL 4148 | D7-8 | 8300636 | **250** ZPD 7.5V |
| D3-6 | 8300482 | **250** LL 4148 | | | |
| R30 | 5011732 | 475 kΩ 1% 1/8W | R32-33 | 5011732 | 475 kΩ 1% 1/8W |
| R31 | 5011733 | 523 kΩ 1% 1/8W | | | |
| C5-6 | 4000325 | 560 pF 5% 50V | C12 | 4000292 | 100 pF 5% 50V |
| C7-8 | 4010176 | 10 nF -20+80% 50V | | | |

| 20 | 51 | 105 | 136 | 209 | 224 | 250 | |
|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  | |

Resistors not referred to are standard, see page 3-4.

## PCB 23, 8001173 Microcomputer

| | | | |
|---|---|---|---|
| IC1 | 8341163 | **105** | 78M05 |
| IC2*Δ | 8341211 | **136** | 80C50 |

| | | | |
|---|---|---|---|
| TR2 | 8320615 | **51** | BC 848B |
| TR3 | 8320616 | **51** | BC 858B |

| | | | |
|---|---|---|---|
| D1 | 8300466 | | B125 C1500 |
| D3 | 8300482 | **250** | LL 4148 |

| | | | | | |
|---|---|---|---|---|---|
| C1 | 4010166 | 100 nF -20+80% 50V | C17 | 4000325 | 560 pF 5% 50V |
| C2 | 4201087 | 47 µF -10+100% 40V | C18 | 4010170 | 2.2 nF 10% 50V |
| C3 | 4010170 | 2.2 nF 10% 50V | C19 | 4200517 | 2.2 µF 20% 50V |
| C4 | 4010166 | 100 nF -20+80% 50V | C20-22 | 4010170 | 2.2 nF 10% 50V |
| C5-6 | 4000234 | 47 pF 5% 50V | C24 | 4200834 | 470 µF -10+50% 25V |
| C7 | 4000325 | 560 pF 5% 50V | C50-52 | 4010170 | 2.2 nF 10% 50V |
| C8 | 4010166 | 100 nF -20+80% 50V | C56 | 4010166 | 100 nF -20+80% 50V |
| C9-16 | 4010170 | 2.2 nF 10% 50V | | | |

| | | |
|---|---|---|
| L1 | 8020552 | Coil 10 µH |

| | | |
|---|---|---|
| X1 | 8090009 | Crystal 6.000 MHz |

| | | |
|---|---|---|
| P10 | 7220862 | Plug 11/11 pole |
| P11 | 7220600 | Plug 8/8 pole |

## PCB 24, 8001174 Display Drive

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TR1 | 8320615 | **51** | BC 848B | TR9 | 8320616 | **51** | BC 858B |
| TR4 | 8320747 | **51** | BC 848C | TR10 | 8320615 | **51** | BC 848B |
| TR5-7 | 8320848 | **20** | BC 338-25 | TR11 | 8320616 | **51** | BC 858B |
| TR8 | 8320615 | **51** | BC 848B | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| D2 | 8300482 | **250** | LL 4148 | D5-6 | 8300023 | **209** | 1N 4002 |
| D4 | 8300520 | **224** | ZPD 6.8V | D7 | 8300577 | **250** | ZPD 3.9V |

| | | |
|---|---|---|
| R40 | 5370141 | 1 kΩ 20% 0.1W |
| R49 | 5020684 | 0.47 Ω 10% 0.4W |

| | | |
|---|---|---|
| LDR | 5210006 | 3.3 kΩ 33% - 21 LUX |

| | | | | | |
|---|---|---|---|---|---|
| C25 | 4200462 | 100 µF -10+50% 25V | C53 | 4000240 | 56 pF 5% 50V |
| C26 | 4200835 | 220 µF -20+50% 25V | C54 | 4010166 | 100 nF -20+80% 50V |
| C30 | 4010166 | 100 nF -20+80% 50V | | | |

| | | | | | |
|---|---|---|---|---|---|
| P110 | 7210748 | Socket 11/11 pole | P113 | 7220167 | Plug 6/6 pole |
| P111 | 7210290 | Socket 8/8 pole | P114 | 7220212 | Plug 3/3 pole |
| P112 | 7210723 | Socket 16 pole | | 7210570 | Strap |

## PCB 25, 8330243 Display

**Standard Resistors:**

Resistors 5% 1/2 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|---|---|---|---|---|---|---|---|---|
| 1.0 | | 5011000 | 5011013 | 5011028 | 5011044 | 5010313 | 5011069 | 5011083 |
| 1.2 | 5011406 | 5011001 | 5011014 | 5011030 | 5011045 | 5011058 | 5010421 | |
| 1.5 | 5010727 | 5011002 | 5011015 | 5011031 | 5011046 | 5011059 | 5011071 | |
| 1.8 | 5010857 | 5010787 | 5011016 | 5011033 | 5011047 | | 5011072 | |
| 2.2 | 5011335 | 5010708 | 5010815 | 5011034 | 5011048 | 5011061 | 5011074 | |
| 2.7 | | 5010803 | 5011018 | 5010055 | 5011049 | 5011062 | 5011075 | |
| 3.3 | 5020803 | 5011007 | 5011019 | 5011037 | | 5011063 | 5010381 | |
| 3.9 | | 5010782 | 5011021 | 5010700 | 5011051 | | 5010392 | |
| 4.7 | 5010765 | 5011009 | 5011022 | 5010035 | 5010036 | 5011065 | 5011078 | |
| 5.6 | | 5011010 | 5011023 | 5011041 | | 5011066 | 5011079 | |
| 6.8 | 5010874 | 5011011 | 5011024 | 5011042 | 5010810 | 5011067 | 5011080 | |
| 8.2 | | 5011012 | 5011026 | 5011043 | 5010038 | 5011068 | 5011081 | |

Resistors 5% 1/4 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|---|---|---|---|---|---|---|---|---|
| 1.0 | 5010592 | 5010506 | 5010065 | 5010040 | 5010059 | 5010049 | 5010054 | 5010638 |
| 1.2 | | 5010595 | 5010128 | 5010153 | 5010046 | 5010047 | 5010665 | |
| 1.5 | 5011348 | 5010468 | 5010057 | 5010247 | 5010053 | 5010063 | 5010093 | |
| 1.8 | | 5010822 | 5010362 | 5010066 | 5010135 | 5010072 | 5010791 | |
| 2.2 | 5010682 | 5010448 | 5010092 | 5010064 | 5010079 | 5010120 | 5010245 | |
| 2.7 | 5010925 | 5010403 | 5010000 | 5010298 | 5010141 | 5010083 | 5010431 | |
| 3.3 | | 5010253 | 5010044 | 5010076 | 5010075 | 5010117 | 5010848 | |
| 3.9 | 5011377 | 5010622 | 5010070 | 5010069 | 5010060 | 5010073 | 5010714 | |
| 4.7 | 5010888 | 5010411 | 5010058 | 5010048 | 5010045 | 5010077 | 5011513 | |
| 5.6 | 5010706 | 5010151 | 5010067 | 5010041 | 5010061 | 5010071 | 5010658 | |
| 6.8 | 5010904 | 5010039 | 5010144 | 5010052 | 5010062 | 5010074 | | |
| 8.2 | 5010880 | 5010056 | 5010068 | 5010154 | 5010091 | 5010505 | | |

Resistors 5% 1/8 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|---|---|---|---|---|---|---|---|---|
| 1.0 | | 5011464 | 5011357 | 5010816 | 5010935 | 5011440 | 5011459 | 5020875 |
| 1.2 | | 5011351 | 5011084 | 5011442 | 5011338 | 5011341 | 5011175 | |
| 1.5 | | 5011463 | 5011443 | 5011178 | 5011364 | 5011398 | 5011460 | |
| 1.8 | | | 5011350 | 5011361 | 5011344 | 5011468 | | |
| 2.2 | 5011032 | 5011376 | 5010886 | 5011353 | 5010833 | 5011369 | 5011342 | |
| 2.7 | | 5011471 | 5011355 | 5011362 | 5011366 | 5011370 | 5011478 | |
| 3.3 | | | 5011337 | 5010827 | 5011346 | 5011371 | 5011462 | |
| 3.9 | | 5011438 | 5011817 | 5011157 | 5011457 | 5011372 | 5020876 | |
| 4.7 | 5011363 | 5011038 | 5011441 | 5011363 | 5010937 | 5011343 | 5011611 | |
| 5.6 | | 5011412 | 5011358 | 5010885 | 5011166 | 5011340 | | |
| 6.8 | | 5011356 | 5011336 | 5010839 | 5011367 | 5011458 | | |
| 8.2 | | 5011466 | 5011354 | 5011339 | 5011368 | 5011373 | | |

Resistors SMD 2% 1/8 W
SMD 5% 1/8 W

| | 5% | 2% | 2% | 2% | 2% | 2% | 5% | 5% |
|---|---|---|---|---|---|---|---|---|
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
| 1.0 | 5011623 | 5011647 | 5011218 | 5011227 | 5011241 | 5011256 | 5011267 | 5011730 |
| 1.1 | 5011624 | 5011648 | 5011669 | 5011681 | 5011689 | 5011694 | 5011707 | |
| 1.2 | 5011625 | 5011649 | 5011219 | 5011682 | 5011490 | 5011257 | 5011708 | |
| 1.3 | 5011626 | 5011650 | 5011670 | 5011683 | 5011242 | 5011258 | 5011709 | |
| 1.5 | 5011627 | 5011651 | 5011220 | 5011228 | 5011243 | 5011259 | 5011710 | |
| 1.6 | 5011628 | 5011652 | 5011671 | 5011684 | 5011690 | 5011695 | 5011711 | |
| 1.8 | 5011629 | 5011653 | 5011672 | 5011229 | 5011244 | 5011260 | 5011712 | |
| 2.0 | 5011630 | 5011654 | 5011673 | 5011685 | 5011691 | 5011696 | 5011713 | |
| 2.2 | 5011216 | 5011655 | 5011674 | 5011230 | 5011245 | 5011261 | 5011714 | |
| 2.4 | 5011634 | 5011656 | 5011675 | 5011686 | 5011246 | 5011697 | 5011715 | |
| 2.7 | 5011635 | 5011657 | 5011497 | 5011231 | 5011247 | 5011262 | 5011716 | |
| 3.0 | 5011731 | 5011658 | 5011499 | 5011500 | 5011692 | 5011698 | 5011717 | |
| 3.3 | 5011217 | 5011659 | 5011676 | 5011232 | 5011248 | 5011263 | 5011718 | |
| 3.6 | 5011636 | 5011660 | 5011677 | 5011687 | 5011249 | 5011264 | 5011719 | |
| 3.9 | 5011637 | 5011661 | 5011221 | 5011233 | 5011491 | 5011699 | 5011720 | |
| 4.3 | 5011638 | 5011662 | 5011498 | 5011688 | 5011492 | 5011700 | 5011721 | |
| 4.7 | 5011639 | 5011269 | 5011222 | 5011234 | 5011250 | 5011265 | 5011722 | |
| 5.1 | 5011640 | 5011663 | 5011678 | 5011235 | 5011493 | 5011701 | 5011723 | |
| 5.6 | 5011641 | 5011664 | 5011223 | 5011236 | 5011251 | 5011702 | 5011724 | |
| 6.2 | 5011642 | 5011665 | 5011224 | 5011237 | 5011693 | 5011703 | 5011725 | |
| 6.8 | 5011643 | 5011666 | 5011225 | 5011238 | 5011252 | 5011704 | 5011726 | |
| 7.5 | 5011644 | 5011667 | 5011679 | 5011239 | 5011253 | 5011705 | 5011727 | |
| 8.2 | 5011645 | 5011270 | 5011226 | 5011240 | 5011254 | 5011266 | 5011728 | |
| 9.1 | 5011646 | 5011668 | 5011680 | 5011489 | 5011255 | 5011706 | 5011729 | |

(Glue dots, approx. 200, part no. 3181932).

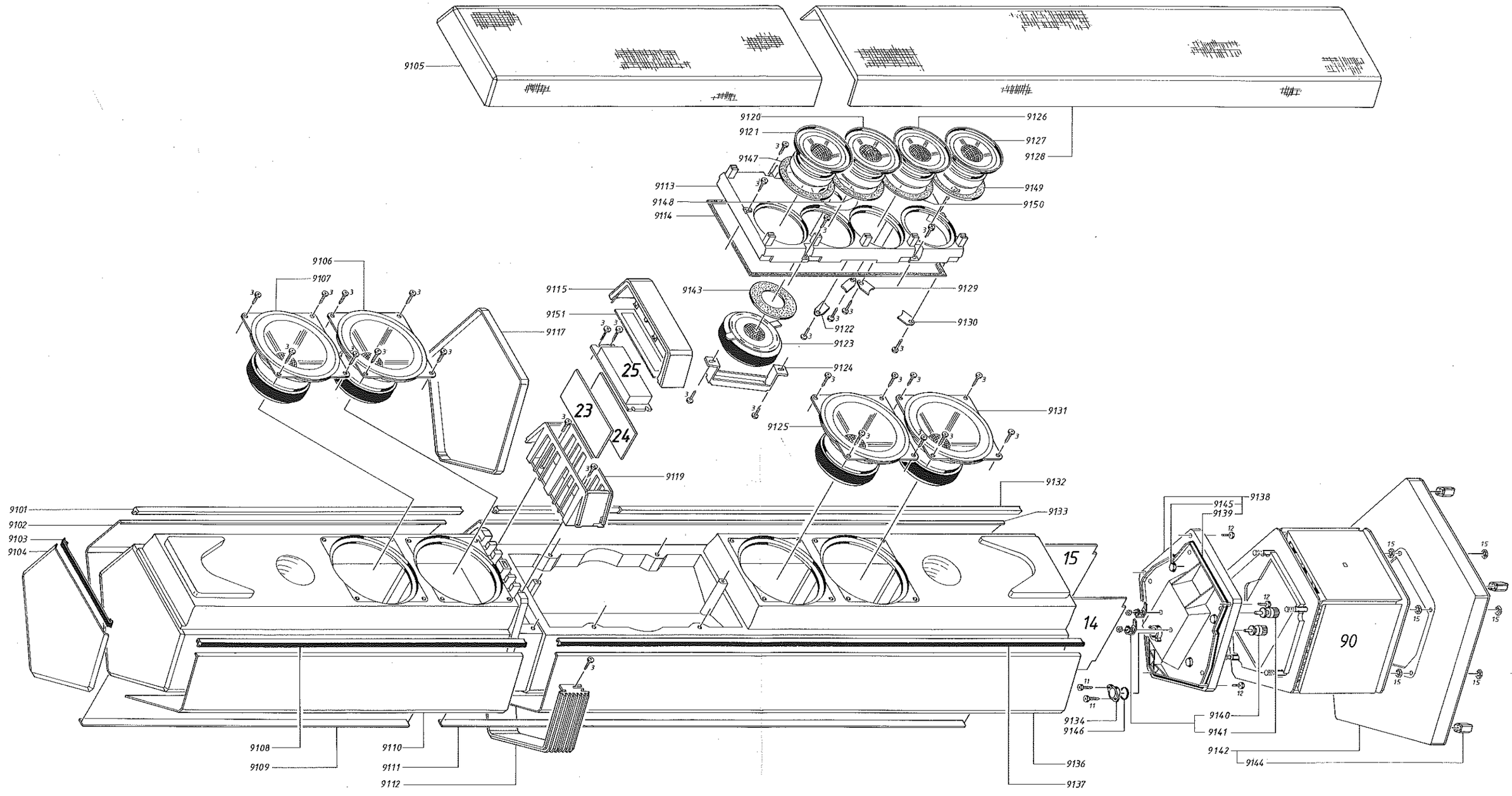
Bang & Olufsen

## MEKANISK STYKLISTE
## LIST OF MECHANICAL PARTS

### Beolab Penta

| | | | |
|---|---|---|---|
| 9101 | 2560224 | Pynteliste, lille | Decorative moulding, small |
| 9102 | 3302407 | Kabinetside og -liste, lille | Cabinet side and moulding, small |
| 9103 | 2560219 | Pynteliste, top | Decorative moulding, top |
| 9104 | 3458407 | Kabinettop | Cabinet top |
| 9105 | 3450668 | Stoframme, lille | Cloth front, small |
| 9106 | 8480197 | Bashøjttaler | Woofer |
| 9107 | 8480197 | Bashøjttaler | Woofer |
| 9108 | 2560224 | Pynteliste, lille | Decorative moulding, small |
| 9109 | 3452525 | Kabinetliste, kort | Cabinet side, short |
| 9110 | 3302407 | Kabinetside og -liste, lille | Cabinet side and moulding, small |
| 9111 | 3452524 | Kabinetliste, lang | Cabinet moulding, long |
| 9112 | 3444181 | Gitter | Grill |
| 9113 | 3440092 | Baffel f/mellemtonehøjttaler | Baffle f/midrange speaker |
| 9114 | 3947202 | Skumtape i metermål | Foam tape by the meter |
| 9115 | 3320132 | Dækglas f/display | Cover glass f/display |
| 9117 | 3320100 | Bånd | Frame |
| 9119 | 3132125 | Skuffe f/PCB | Tray f/PCB |
| 9120 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9121 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9122 | 2630024 | Beslag f/mellemtonehøjttaler | Fitting f/midrange speaker |
| 9123 | 8480206 | Diskanthøjttaler | Tweeter |
| 9124 | 3031125 | Beslag f/diskanthøjttaler | Fitting f/tweeter |
| 9125 | 8480197 | Bashøjttaler | Woofer |
| 9126 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9127 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9128 | 3450667 | Stoframme, stor | Cloth front, big |
| 9129 | 2630024 | Beslag f/mellemtonehøjttaler | Fitting f/midrange speaker |
| 9130 | 2630024 | Beslag f/mellemtonehøjttaler | Fitting f/midrange speaker |
| 9131 | 8480197 | Bashøjttaler | Woofer |
| 9132 | 2560243 | Pynteliste højre, stor | Decorative moulding right, big |
| 9133 | 3302406 | Kabinetside og -liste, stor | Cabinet side and moulding, big |
| 9134 | 6275649 | Ledningsbundt | Wire bundle |
| | | m/7 pol. DIN stik - hun | w/7 pole DIN socket - female |
| | 7210608 | 7 pol. DIN stik - hun | 7 pole DIN socket - female |
| 9136 | 3302406 | Kabinetside og -liste, stor | Cabinet side and moulding, big |
| 9137 | 2560244 | Pynteliste venstre, stor | Decorative moulding left, big |
| 9138 | 3454478 | Bund m/tryk | Bottom w/print |
| 9139 | 3947202 | Skumtape i metermål | Foam tape by the meter |
| 9140 | 7210596 | Skrueterminal, sort | Terminal screw, black |
| 9141 | 7210595 | Skrueterminal, rød | Terminal screw, red |
| 9142 | 8860250 | Glassokkel | Glass socket |
| 9143 | 3340072 | Pakning | Gasket |
| 9144 | 3103224 | Fod | Foot |
| 9145 | 3103066 | Gummifod | Rubber foot |
| 9146 | 2732084 | O-ring | O-ring |
| 9147 | 3340070 | Pakning | Gasket |
| 9148 | 3340070 | Pakning | Gasket |
| 9149 | 3340070 | Pakning | Gasket |
| 9150 | 3340070 | Pakning | Gasket |
| 9151 | 3183092 | Afdækning f/display | Masking f/display |

| | | |
|---|---|---|
| 14Modul | 8006028 | PCB14, Crossover Network/Woofers-Tweeter |
| 15Modul | 8006027 | PCB15, Crossover Network/Midrange |
| 23Modul | 8001173 | PCB23, Microcomputer |
| 24Modul | 8001174 | PCB24, Display Drive |
| 25Modul | 8330243 | PCB25, Display |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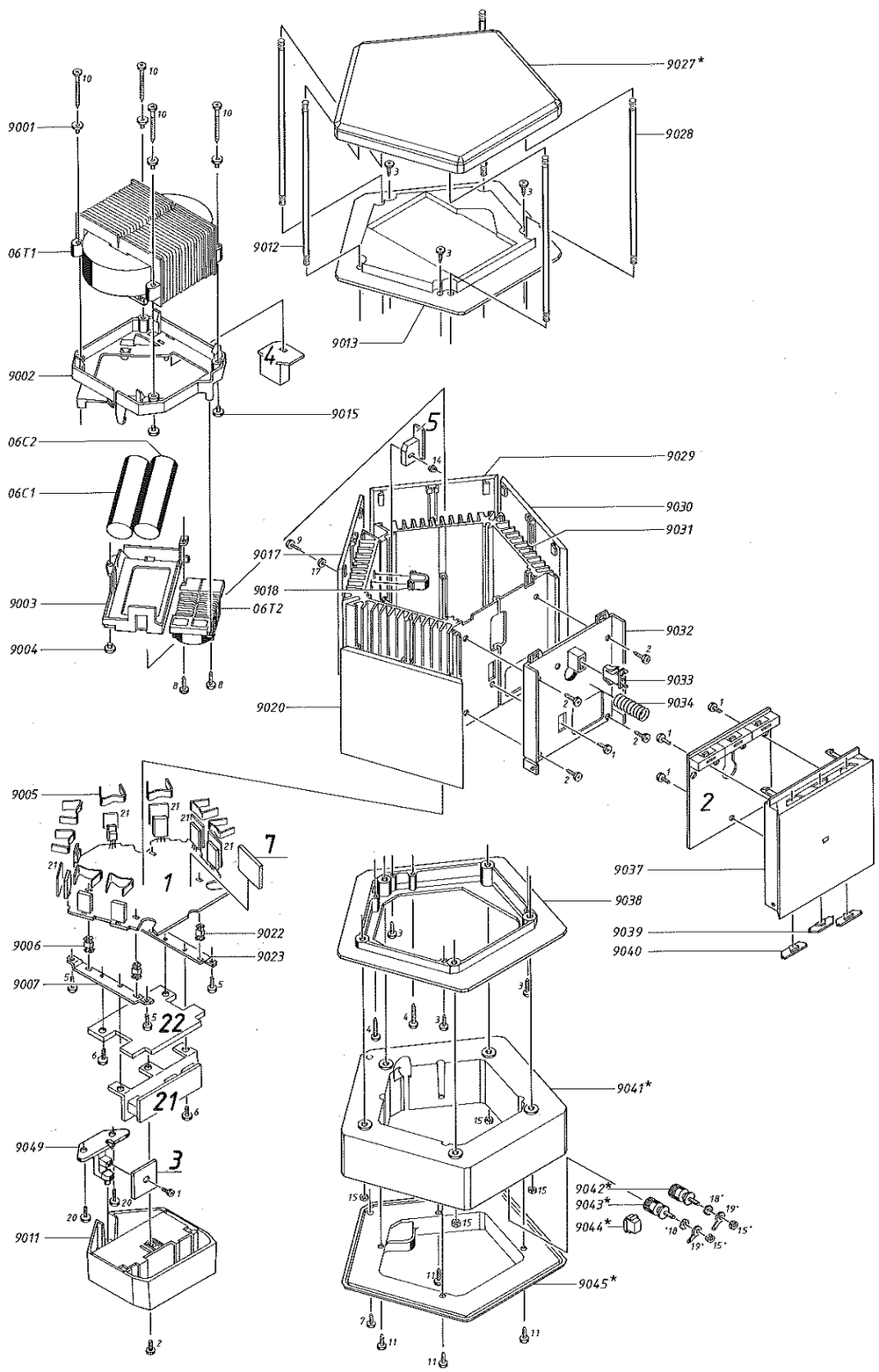
4-3



## Power Amplifier




* Kun i Beolab 200, byte 172»

## Power Amplifier

### Beolab 200

| | | |
|---|---|---|
| 9017 | 3164745 | Cover plate w/print |
| 9027 | 3458492 | Lid |
| 9041 | 3454443 | Intermediate piece |
| 9042 | 7210595 | Terminal Screw, red |
| | 7210596 | Terminal Screw, black |
| 9043 | 7210595 | Terminal Screw, red |
| | 7210596 | Terminal Screw, black |
| 9044 | 7211047 | Socket |
| 9045 | 3454444 | Base |

### Survey of screws

| | | |
|---|---|---|
| 15 | 2380016 | Nut M4 |
| 18 | 2625003 | Washer |
| 19 | 7530091 | Soldering lug |

| | | | |
|---|---|---|---|
| 9001 | 2938154 | Bøsning | Bushing |
| 9002 | 3152455 | Holder f/elektrolytter | Holder f/electrolytes |
| 9003 | 3164608 | Låg f/elektrolytter | Cover f/electrolytes |
| 9004 | 2938154 | Bøsning | Bushing |
| 9005 | 2819157 | Bøjle | Clamp |
| 9006 | 3152063 | Holder f/PCB1 | Holder f/PCB1 |
| 9007 | 2542669 | Vinkel f/PCB1 | Bracket f/PCB1 |
| | 3947202 | Skumtape i metermål f/vinkel | Foam tape by the meter f/bracket |
| 9011 | 3164742 | Dæksel f/stikbrønd | Cover f/socket |
| 9012 | 2076007 | Gevindstykke | Threaded piece |
| 9013 | 3162266 | Sammenspændingsstykke | Assembling piece |
| 9015 | 2938154 | Bøsning | Bushing |
| 9017 | 3164748 | Dækplade m/tryk, type 6621 | Cover plate w/print, type 6621 |
| | 3164749 | Dækplade m/tryk, type 6622 | Cover plate w/print, type 6622 |
| | 3164751 | Dækplade m/tryk, type 6623 | Cover plate w/print, type 6623 |
| | 3164753 | Dækplade m/tryk, type 6624 | Cover plate w/print, type 6624 |
| | 3164750 | Dækplade m/tryk, type 6625 | Cover plate w/print, type 6625 |
| 9018 | 3152507 | Ledningsholder | Wire holder |
| 9020 | 3164602 | Dækplade | Cover plate |
| 9022 | 3152063 | Holder f/PCB1 | Holder f/PCB1 |
| 9023 | 2542669 | Vinkel f/PCB1 | Bracket f/PCB1 |
| | 3947202 | Skumtape i metermål f/vinkel | Foam tape by the meter f/bracket |
| 9028 | 2076007 | Gevindstykke | Threaded piece |
| 9029 | 3164603 | Dækplade | Cover plate |
| 9030 | 3164602 | Dækplade | Cover plate |
| 9031 | 2568847 | Køleprofil | Heat sink |
| 9032 | 3452527 | Bagstykke, betjening | Rear cover, control |
| 9033 | 3034066 | Lås f/låg | Lock f/lid |
| 9034 | 2812113 | Trykfjeder | Pressure spring |
| 9037 | 3168769 | Betjeningspanel | Control panel |
| 9038 | 3162268 | Sammenspændingsstykke | Assembling piece |
| 9039 | 2776037 | Knap omskifter | Switch button |
| 9040 | 2776037 | Knap omskifter | Switch button |
| 9049 | 3152657 | Holder f/netledning | Holder f/mains lead |

| | | |
|---|---|---|
| 01Modul | 8001159 | PCB1, Amplifier |
| 02Modul | 8001165 | PCB2, Control |
| 03Modul | 8002905 | PCB3, PCB without fuses and mains lead |
| | 6271102 | Mains lead, type 6621-6622 |
| | 6270251 | Mains lead, type 6623 |
| | 6271016 | Mains lead, type 6624 |
| | 6270297 | Mains lead, type 6625 |
| 04Modul | 8001166 | PCB4, Relay |
| | 3917109 | Damping material |
| 05Modul | 8001167 | PCB5, Bridge |
| 06T1 | 8013369 | Transformer, type 6621-6622-6625 |
| | 8013375 | Transformer, type 6623 |
| | 8013376 | Transformer, type 6624 |
| 06T2 | 8013370 | Transformer, type 6621-6622-6623-6625 |
| | 8013377 | Transformer, type 6624 |
| 06C1 | 4200653 | 10000 uF 20% 80V |
| 06C2 | 4200653 | 10000 uF 20% 80V |
| | 3917109 | Damping material |
| 07Modul | 8001168 | PCB7, Signal Level |
| 21Modul | 8001169 | PCB21, Input Socket |

| | | | | | |
|---|---|---|---|---|---|
| 21P4 | 7210518 | 8 pole DIN socket | 21P6 | 7220746 | Phono plug |
| 21P5 | 7210518 | 8 pole DIN socket | 21P7 | 7210521 | Loudspeaker socket |

## Ikke viste dele
## Parts not shown

| | | |
|---|---|---|
| 6275627 | Ledningsbundt m/7 pol. DIN stik - han | Wire bundle w/7 pole DIN plug - male |
| 7220205 | 7 pol. DIN stik - han | 7 pole DIN plug - male |
| 3040026 | Topnøgle | Socket spanner |
| 3922023 | Dæmpemateriale | Damping material |
| 3922025 | Dæmpemateriale f/mellemtone, lille | Damping material f/midrange, small |
| 3922024 | Dæmpemateriale f/mellemtone, stor | Damping material f/midrange, big |
| 3946038 | Folie i meter | Foil by the meter |
| 3397604 | Skumemballage f/glassokkel | Foam packing f/glass socket |
| 3397555 | Skumemballage mellemstykker | Foam packing f/spacers |
| 3397554 | Skumemballage endestykker | Foam packing f/end pieces |
| 3391838 | Yderæske | Outer carton |
| 3397601 | Skumemballage f/bund | Foam packing f/bottom |

## Oversigt over skruer, skiver m.m.
## Survey of screws, washers etc.

| | | | |
|---|---|---|---|
| 1 | 2013208 | Skrue 2,9 x 9,5 mm | Screw 2.9 x 9.5 mm |
| 2 | 2039027 | Skrue 3 x 6 mm | Screw 3 x 6 mm |
| 3 | 2015088 | Skrue 3,5 x 16 mm | Screw 3.5 x 16 mm |
| 4 | 2015116 | Skrue 3,5 x 25 mm | Screw 3.5 x 25 mm |
| 5 | 2015201 | Skrue 3,5 x 9,5 mm | Screw 3.5 x 9.5 mm |
| 6 | 2039026 | Skrue 3 x 4 mm | Screw 3 x 4 mm |
| 7 | 2039028 | Skrue 3 x 8 mm | Screw 3 x 8 mm |
| 8 | 2015008 | Skrue 3,5 x 13 mm | Screw 3.5 x 13 mm |
| 9 | 2039014 | Skrue 3 x 20 mm | Screw 3 x 20 mm |
| 10 | 2015115 | Skrue 3,5 x 50 mm | Screw 3.5 x 50 mm |
| 11 | 2013107 | Skrue 2,9 x 9,5 mm | Screw 2.9 x 9.5 mm |
| 12 | 2043016 | Skrue 4 x 10 mm | Screw 4 x 10 mm |
| 14 | 2380011 | Møtrik M3 | Nut M3 |
| 15 | 2380016 | Møtrik M4 | Nut M4 |
| 17 | 2624013 | Skive | Washer |
| 20 | 2015108 | Skrue 3,5 x 16 mm | Screw 3.5 x 16 mm |
| 21 | 3170169 | Glimmerskive | Mica washer |

## TILBEHØR
## ACCESSORIES

| | | |
|---|---|---|
| 6270336 | 4 pol DIN skærmet HT ledning – 5 m | 4-pin DIN shielded speaker cable – 5 m |
| 6270352 | 4 pol DIN skærmet HT ledning – 10 m | 4-pin DIN shielded speaker cable – 10 m |
| 6270350 | 2 pol DIN skærmet HT ledning – 5 m | 2-pin DIN shielded speaker cable – 5 m |
| 6270417 | 8 pol DIN Power Link ledning – 2,5 m | 8-pin DIN Power Link cable – 2.5 m |
| 6270418 | 8 pol DIN Power Link ledning – 5 m | 8-pin DIN Power Link cable – 5 m |
| 6270419 | 8 pol DIN Power Link ledning – 10 m | 8-pin DIN Power Link cable – 10 m |
| 7229075 | Adaptor f/Power Link – 8 pol DIN hun/8 pol DIN hun | Adaptor f/Power Link - 8-pin DIN female/8-pin DIN female |

## OWNER's MANUALS

| | | |
|---|---|---|
| 3506145 | Dansk | Danish |
| 3506146 | Svensk | Swedish |
| 3506147 | Finsk | Finnish |
| 3506148 | Engelsk | English |
| 3506149 | Tysk | German |
| 3506150 | Hollandsk | Dutch |
| 3506151 | Fransk | French |
| 3506153 | Italiensk | Italian |
| 3506154 | Spansk | Spanish |

## JUSTERINGER

### Tomgangsstrøm

Tomgangsstrøm justeres medens forstærkeren er kold og uden signal tilført.

Højttaler må ikke være tilsluttet.

DC millivoltmeter tilsluttes over modstandene 1R103/1R104, dvs. fra emitteren på 1TR32 til emitteren på 1TR27.

1R95 justeres til 30mV.

### Offset

DC voltmeter tilsluttes højttalerudgangen.

1R59 justeres til 0 V.

### Display

DC voltmeter tilsluttes stel og 24TP1.

Med potentiometer 24R40 justeres kontrastspændingen til 1,9V ±0,05V.

## ADJUSTMENTS

### No-load current

Adjust the no-load current while the amplifier is cold and without any supply of signal.

The loudspeaker must not be connected to the amplifier.

Connect the DC millivoltmeter across the two resistors 1R103/1R104, that is from the emitter of 1TR32 to the emitter of 1TR27.

Adjust 1R95 to 30mV.

### Offset

Connect the DC voltmeter to the loudspeaker output.

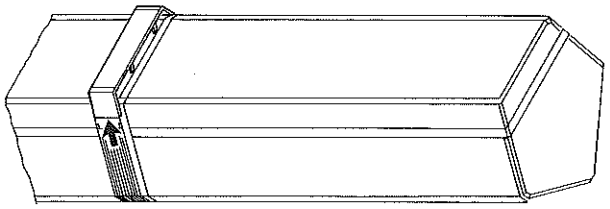
Adjust 1R59 to 0 V.

### Display

Connect DC voltmeter across ground and 24TP1.

Use potentiometer 24R40 to adjust contrast voltage to 1.9V ±0.05V.

## ADSKILLELSE
**Display**



Dækslet afmonteres ved at trække i pilens retning.

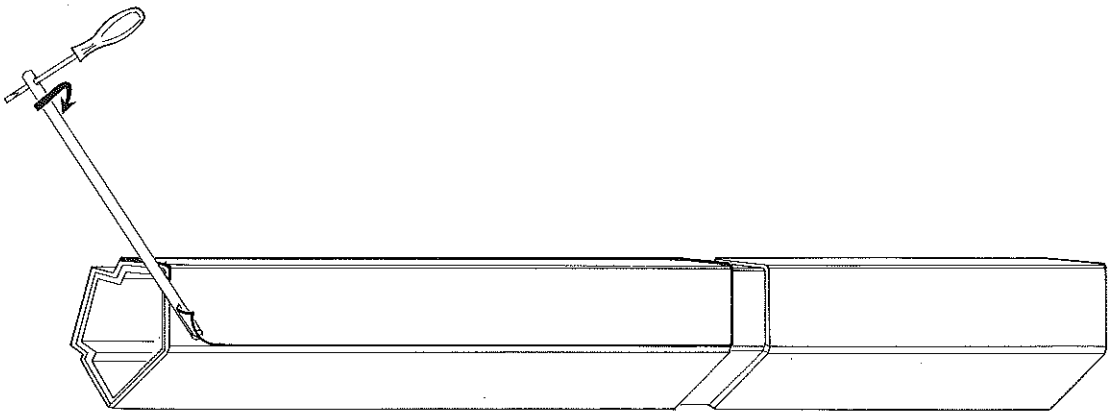
Ved at løsne de 4 skruer kan display-enheden frigøres, og løftes ud i serviceposition.

## DISMANTLING
**Display**

Dismantle the cover by pulling it in the direction indicated by the arrow.

By loosening the 4 screws the display unit become accessible and can be lifted up in service position.

## REPARATIONSTIPS
**Udskiftning af rustfrit stål**



De rustfrie stålpaneler løsnes forsigtigt i et af hjørnerne.

Hjælpeværktøj bestillingsnr. 3629116 benyttes som vist på tegningen.

## REPAIR HINTS
**Replacement of stainless steel**

Loosen the stainless steel panels carefully in one corner.

Use the service tool, part no 3629116 as shown on the drawing.

## ISOLATIONSTEST

Ethvert apparat skal isolationstestes, efter at det har været adskilt. Testen udføres, når apparatet er samlet igen og er klar til udlevering til kunden.

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stel på phonobøsningen (LINE IN).

OBS!
For at undgå beskadigelser af apparatet er det vigtigt, at begge terminaler på isolationstesteren har virkelig god kontakt.

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

## INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to ground in phono socket (LINE IN).

NOTE!
To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

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